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(54) Title: PREPARATION OF SUPPORTED CATALYSTS FOR POLYMERIZATION

(57) **Abstract:** The invention relates to a process for preparing a supported catalyst, in particular for the polymerization and/or copolymerization of olefins, which comprises: 5 a) preparing a hydrogel; b) milling the hydrogel to give a finely particulate hydrogel; c) producing a slurry based on the finely particulate hydrogel; d) drying the slurry comprising the finely particulate hydrogel to give the support for catalysts; e) producing the supported catalyst by applying at least one transition metal and/or at least one transition metal compound to the support for catalysts and, if appropriate, activating the applied metal and/or compound, wherein a finely particulate hydrogel in which - at least 5% by volume of the particles, based on the total volume of the particles, have a particle size in the range from > 0 pm to < 3 pm; and/or - at least 40% by volume of the particles, based on the total volume of the particles, have a particle size in the range from > 0 pm to < 12 pm, and/or - at least 75% by volume of the particles, based on the total volume of the particles, have a particle size in the range from > 0 pm to < 35 pm, is produced in step b) and a support which can be prepared as set forth in steps a) to d) is used to produce catalysts in step e).